

Title (en)  
ELECTRICAL MONITORING DEVICE, IN PARTICULAR FOR A HIGH-VOLTAGE APPLICATION IN A MOTOR VEHICLE

Title (de)  
ELEKTRISCHE ÜBERWACHUNGSVORRICHTUNG, INSBESONDERE FÜR HOCHSPANNUNGSANWENDUNG IN EINEM KRAFTFAHRZEUG

Title (fr)  
DISPOSITIF DE SURVEILLANCE ÉLECTRIQUE, EN PARTICULIER POUR UNE APPLICATION HAUTE TENSION DANS UN VÉHICULE À MOTEUR

Publication  
**EP 4290259 A1 20231213 (EN)**

Application  
**EP 22177440 A 20220607**

Priority  
EP 22177440 A 20220607

Abstract (en)  
The invention relates to an electrical monitoring device (1), in particular for a high-voltage application in a motor vehicle, in particular in an electric vehicle,- with an electrical high-voltage connection unit (2), having a plug (20) and a plug receptacle (21), in which the plug (20) can be received,- the high-voltage connection unit (2) having a high-voltage connection (4) which can be electrically connected or is electrically connected to a high-voltage electrical voltage source (3) and also having an electrical signal input connection (5) and an electrical signal output connection (6), the signal input connection (5) and the signal output connection (5) being designed in such a way that they are electrically connected to one another when the plug is accommodated in the plug receptacle and are electrically isolated from one another when the plug is not accommodated in the plug receptacle,- a microcontroller (10) having a signal output (12) electrically connected to the signal input terminal (5) via a first signal processing unit (11a) for providing an electrical output signal sequence generated by the microcontroller (10), and further having a signal input (13) electrically connected to the signal output terminal (6) via a second signal processing unit (11b) for processing an electrical signal sequence provided at the signal output terminal (6),- wherein the device (1) comprises an electrical connection (15) by means of which an electrical signal sequence provided at the signal input terminal (5) can be transmitted to the microcontroller (10).

IPC 8 full level  
**G01R 31/54** (2020.01)

CPC (source: EP)  
**G01R 31/54** (2020.01)

Citation (applicant)  
US 2011062798 A1 20110317 - TARCHINSKI JAMES E [US], et al

Citation (search report)

- [XDAI] US 2011062798 A1 20110317 - TARCHINSKI JAMES E [US], et al
- [I] US 2014082418 A1 20140320 - KIM SUNG-WOO [KR], et al
- [I] US 7339465 B1 20080304 - CHENG JOHN C [US], et al
- [I] US 2018284179 A1 20181004 - HASHIZUME MASATO [JP], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4290259 A1 20231213**; CN 117192440 A 20231208

DOCDB simple family (application)  
**EP 22177440 A 20220607**; CN 202310674267 A 20230607